

6 March 1967

25X1A

SCOPE OF WORK

1. This project consists of necessary design and construction of approximately 380 sq. feet to be added to the existing powerhouse at the

*of own addition*

plus

25X1A

the installation of new equipment as described below.

2. Primary items for consideration are as follows:

a. Structural: Present building consists of a concrete and masonry structure with a reinforced concrete roof slab resting on 8-inch masonry load bearing walls. Present clear height is 10 ft. 0 inches. The new construction is to be added on to this building but is to have a clear height sufficient to permit installation of a traveling crane. Where the new addition abuts the present building, a portion of the existing load bearing wall will have to be removed. The existing roof slab load must be transferred to the new structure in that area.

b. ~~Mechanical and~~ Electrical: ~~Remove existing~~ Furnish and install all materials, labor, equipment, appliances, and services as specified and/or shown on the attached drawings. Furnish labor and material to install items of equipment furnished by the Government. The following items shall be furnished and installed completely by the contractor.

(1) All conduit and wiring.

(2) Lighting fixtures and convenience outlets.

(3) Connections to mechanical and electrical equipment to include control wiring and wiring to remote panel.

(4) Transformer, 3 each, single phase, 100 KVA, 60 cycle

oil-filled, primary to match existing incoming power, Standard NEMA taps, secondary 277/480 three phase four wire connected to GFE no-break drive motor. Furnish labor and material to install and/or rewire the following Government furnished equipment:

(a) Two (2) existing 200 KW diesel generators.

(b) One new control and distribution switchboard with remote panel and external dummy load according to attached drawings.

(c) One (1) new 175 KW no-break power unit with control cabinet.

c. Mechanical:

(1) Work Included - Expansion to the existing building as indicated on the attached drawing. Dimensions indicated are minimum allowable. Furnish and install four-way travelling crane of 10 ton capacity over no-break generator as indicated on drawing. Provide bases to support generating equipment and louvered openings through walls with ducts between engine radiators and openings. Intake louvers should have at least twice the total radiator area of the generating equipment. Provide 500 gal. day tank with dual pump from main storage tank. Install 1/2" supply and return lines from day tank to no-break generator. Reconnect fuel piping to 200 KW diesel units. Install GFE engine silencers to outside of building including all supports and weather seals.

d. Miscellaneous Data

(1) Weight of no-break unit ~~/s/~~ is approximately 26,000 lbs. supported at (6) points on 12" X 12" steel plates.

(2) Weight of 200 KW generators is approximately 11,000 lbs. and is supported to 6 points on 6" X 6" steel plates.

3. General Remarks:

The actual configuration of the new addition is not critical but is to be governed by available space, minimum cost, and space large enough to provide sufficient clearance for installation, operation, and maintenance of the equipment concerned. The 500 gallon day tank and dummy load bank should be externally located. The day tank should be equipped to remain full through automatically controlled transfer pumps. The transfer pumps should be backed up by manual pumping devices.